

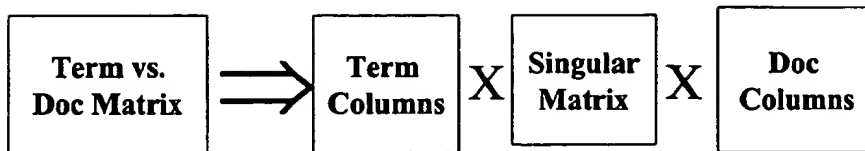
## Figures

09683263-120501

	Doc #1	Doc #2	...	Doc #n
able	1	0	...	1
acid	0	2	...	0
...	...	...	...	...
<term m>	1	0		1

**FIGURE 1 Term by Document Matrix**

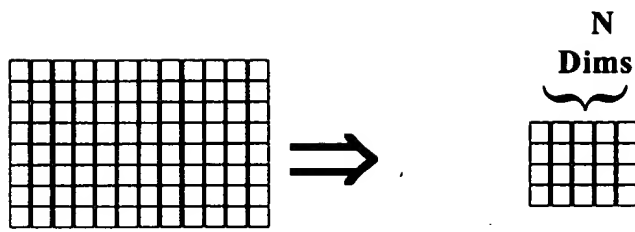
TOP SECRET E92E8360



**SVD Extracts Key Relationships among  
Terms - Basis for Conceptual Matching**

**FIGURE 2 – Singular Value Decomposition (SVD) Operation**

09683263 - 120501



**Large, Sparse Matrix**

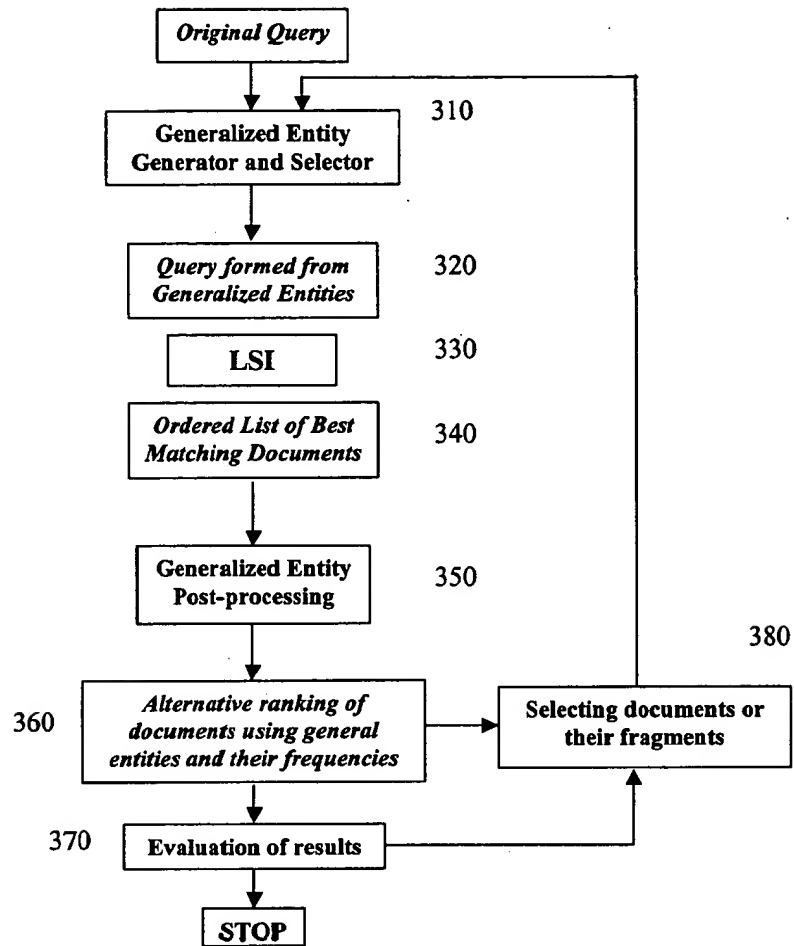
**LSI Vector Space**

**Typically, N= Several Hundred**

**FIGURE 3 – Dimensionality Reduction**

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T05021-E92E8960

FIGURE 4



T0502T E92E8960